

19980719.qrp v01_n157.qrs.980719

Date: Sun, 19 Jul 1998 19:03:08 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 1157

QRP-L Digest 1157

Topics covered in this issue include:

- 1) [15419] Crystals
by Andy Chumbley <andyc@e-z.net>
- 2) [15420] Why don't they...
by ARDUJENSKI@aol.com
- 3) [15421] Re: Simple BFO circuit
by "George T. Baker" <w5yr@swbell.net>
- 4) [15422] Re: Know of any Linears for the Hw-8?
by Zack Lau <zlau@arrl.org>
- 5) [15423] Re: very happy bug user
by Ab7wy@aol.com
- 6) [15424] Re: Why don't they...
by Zack Lau <zlau@arrl.org>
- 7) [15425] Re: QSL Cards
by "John J. McDonough" <jjmcd@tm.net>
- 8) [15426] Re: Bugs and the consequences
by k5zty@juno.com
- 9) [15427] Norcal Paddle Finishing the Handles
by "Steve & Anne Ray" <sbralr@worldnet.att.net>
- 10) [15428] Norcal Paddle, Finishing Plastic Handles
by "Steve & Anne Ray" <sbralr@worldnet.att.net>
- 11) [15429] Re: Bugs and ETC
by "John J. McDonough" <jjmcd@tm.net>
- 12) [15430] Re: QSL Printing
by "John J. McDonough" <jjmcd@tm.net>
- 13) [15431] cw Bug ya :-)
by jdenison@morelr.com (JOEL DENISON)
- 14) [15432] FS: Heath DX35
by Paul Erickson <paule@sfu.ca>
- 15) [15433] Why don't they...Tell Zack to QRS
by MNHopkins@aol.com
- 16) [15434] Re: N2CQ places in TAC 'test!
by Ken Newman <n2cq@citnet.com>
- 17) [15435] Perfect Code ??? (long)
by KF4EIB@aol.com
- 18) [15436] CQC Picnic Pix
by "Marshall Emm" <mgemm@mtechnologies.com>
- 19) [15437] Re: Why don't they...Tell Zack to QRS

- by Bob Patten <n4bp@bc.seflin.org>
- 20) [15438] RE: TAC Contest Results
by Ken Newman <n2cq@citnet.com>
- 21) [15439] Re: cw Bug ya :-)
by "Roy G. Jackson" <rjackson@iname.com>
- 22) [15440] RE: Why don't they...
by cy r currier <crc3@telplus.net>
- 23) [15441] Re: Know of any Linears for the Hw-8?
by ka1iic <ka1iic@ime.net>
- 24) [15442] Re: bandwidth
by w0yse@juno.com (Neil Klagge)
- 25) [15443] Re: Giving QRP Talk
by "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>
- 26) [15444] Re: Antenna/wire advice for portable operation?
by "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>
- 27) [15445] Re: RV: Neophyte 40 M receiver
by "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>
- 28) [15446] 18 Mhz great for QRP DX!
by "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>
- 29) [15447] [Fwd: Why don't they...Tell Zack to QRS]
by Walt Amos <waltk8cv@ameritech.net>
- 30) [15448] CW renaissance!
by Vic Rosenthal <rakefet@rakefet.com>
- 31) [15449] QSL PRINTING PROGRAMS
by Lisa Osier <osier@northnet.org>
- 32) [15450] Glacier-Waterton hamfest
by marion@montana.com
- 33) [15451] Re: Simple BFO circuit
by Monte Stark <ku7y@dri.edu>
- 34) [15452] Simple BFO Request
by haf47@JUNO.COM
- 35) [15453] Field Day Pix
by Bob Patten <n4bp@bc.seflin.org>
- 36) [15454] CUSHCRAFT R7000 PROBLEMS
by Mark Gilger <mgilger@concentric.net>
- 37) [15455] Spectrum Analyzer Kit info from Kanga US
by "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
- 38) [15456] CW SPEED (sorry)
by ARDUJENSKI@aol.com
- 39) [15457] HW-9 coils needed
by Michael Melland <badger@vbe.com>
- 40) [15458] Re: bandwidth
by ka1iic <ka1iic@ime.net>
- 41) [15459] CQC Picnic Meeting
by "Marshall Emm" <mgemm@ntechnologies.com>
- 42) [15460] Re: cw Bug ya :-)
by Ed Tanton <n4xy@att.net>
- 43) [15461] Last Minute Reminder, GCGR

by "Marshall Emm" <mgemm@ntechnologies.com>
44) [15462] QRP Ops
by jeffrey davis <jeff@jehosopha.com>
45) [15463] Colo. Gold Rush here I come.
by "Jim Larsen (AL7FS)" <larsenn@alaska.net>
46) [15464] Pad Cutter
by dave_epps@juno.com
47) [15465] Re: CW renaissance!
by "Harry T. Hurst" <hhurst@delaware.infi.net>
48) [15466] Re: cw Bug ya :-)
by Ab7wy@aol.com
49) [15467] note, plea to "Stonewall" John, K6GG
by MNHopkins@aol.com
50) [15468] help with qsl print programs
by Lisa Osier <osier@northnet.org>
51) [15469] Field Day Pix
by Bob Edwards <w4ed@flash.net>
52) [15470] Colorado Gold Rush de AL7FS
by "Jim Larsen (AL7FS)" <larsenn@alaska.net>
53) [15471] CO Gold Rush oops
by N9DD@aol.com
54) [15472] [Fwd: Heath HW-9]
by "Gary M. - W2UX" <mail4gary@worldnet.att.net>

Date: Sat, 18 Jul 1998 16:03:36 -0700
From: Andy Chumbley <andyc@e-z.net>
To: qrp-l@Lehigh.EDU
Subject: [15419] Crystals
Message-ID: <35B129C7.DEB36A19@e-z.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi all!!! Just built a 15m homebrew xmtr. Output about 100 milliwatts.
They call for a 21MHz 3rd overtone crystal. Is a 7049 close enough?
Thanks, 73's Andy K7DDH

Date: Sat, 18 Jul 1998 19:40:37 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@Lehigh.EDU
Subject: [15420] Why don't they...
Message-ID: <6ef789a4.35b13276@aol.com>

Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

I have noted that during contests that folks have a tendency to send cw at blazing speeds and in many instances either the other station needs a repeat or they don't just make the exchange. It appears that this syndrome is strictly in cw mode because I have yet to hear folks on SSB breathless and tripping on their tongues. Man that would be tough on those with a nice drawl...

Just an observation...Alan KB7MBI

Date: Sat, 18 Jul 1998 19:23:42 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: ae4ic@nr.infi.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [15421] Re: Simple BFO circuit
Message-ID: <35B13C8E.41F67416@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Need to make it adjustable, though, Keith, so that you can set the beat note to the pitch you prefer.

Ab old trick we used to use with such radios was to merely set another radio near the desired receiver and tune it to the same band. By varying the tuning of the "other" radio you can inject a front-end oscillator signal that will beat with the desired signal. You may have to play around with positioning the two receivers to get the signal coupling adequate.

Also a signal generator or transmitter VFO operating at the signal frequency can be used to make the cw readable. But you have to tune it match the desired signal frequency. That is the advantage of an i-f oscillator - no tuning required once the offset frequency is set up.

72/73, George
Amateur Radio W5YR, 52 years and counting!
QRP-L #1373 QRP ARCI #9583 FISTS #4930 ARS #403
AutoPOWER Systems, Fairview, TX (30 Mi. N. of Dallas)

Bob Kellogg wrote:

>

> Keith,
>
> Yes, there is. What you do is build a simple oscillator on the frequency
> of the IF. This can be an external device. The radios IF will pick up the
> oscillator when you turn it on.
>
> Hope this helps.
>
> CUL,
> Bob Kellogg, AE4IC, Greensboro, NC
> Prolably, but not nececelery. -- Benny Hill
> -----
> > Is there an easy and simple way to add a BFO function to a receiver? I
> have an 8 band SW radio that is perfect in everyway.....except it
> does not have a BFO!
> >
> > Thanks
> >
> > Keith

--

72/73, George
Amateur Radio W5YR, 52 years and counting!
QRP-L #1373 QRP ARCI #9583 FISTS #4930 ARS #403
AutoPOWER Systems, Fairview, TX (30 Mi. N. of Dallas)

Date: Sat, 18 Jul 1998 20:39:35 -0400
From: Zack Lau <zlau@arrl.org>
To: qrp-l@Lehigh.EDU
Subject: [15422] Re: Know of any Linears for the Hw-8?
Message-ID: <35B14047.1857@arrl.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Kevin Muenzler WB5RUE wrote:

> I thought that 3kc (or so) was the limit for all HF emmissions.

I think the AM--DSB folks would disagree. There certainly is
wording in the legal sense, but I'd argue that when you try to
find specific numbers, they aren't there, and judgement calls
come into play. How much bandwidth do the AM DSB folks consider
necessary? How many hams accurately know the width of their CW

transmissions according to actual measurements?--Zack Lau W1VT

Date: Sat, 18 Jul 1998 20:49:38 EDT
From: Ab7wy@aol.com
To: qrp-1@Lehigh.EDU
Subject: [15423] Re: very happy bug user
Message-ID: <6ad487a9.35b142a3@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

i just wanted to clear things up here...first of all, i think some of my statements were misconstrued. my intention was never to "endorse" bad code sending on a bug, in fact, i believe in sending to the best of your abilities. im an ardent cw user, and i like to take pride in my sending. i try to sound as close to perfect as possible. i really do agree with the gentleman that pointed out how bad code gets passed up for more copiable code...it happens all the time. hey, ive even done it !

the main point i was trying to make was that if we as hams judge another operators sending too quickly or harshly...newer hams might get discouraged from trying, thinking that "how can i be as good as these guys" or "oh the hell with it, ill get a no code ticket, THEY wont criticize me". now, i realize that most wont be that fragile, but why make us look like purist old farts. my whole point is that we should try to create a nurturing enviroment for our new brothers and sisters, and to show the outside world that hams arent a bunch of bickering nerds playing with an outdated mode of communication....we know better than that!! lets show the world that we have unity! as far as the code goes..i tell every new ham (or potential new ham) to learn code, dont forget the code, get good at the code, upgrade, etc...this code/no-code war about made me sick!

hams overall are great people, people in need can really count on the vast majority of the ham community. if outsiders look at us and see that we are content and happy doing what we do, and we can help them when they need it, and we are a strong family...then ham radio will re-establish its rightful place in society and history. its the most rewarding hobby i could think of undertaking, and if code, or even ham radio ever dropped off the face of the earth...i would still be there calling cq. and i have faith that many of you will be there too.

thats all i was trying to say. lets be that strong family again.

73 friends, one and all,

Adam Taylor, AB7WY

Date: Sat, 18 Jul 1998 20:56:54 -0400
From: Zack Lau <zlau@arrl.org>
To: qrp-1@Lehigh.EDU
Subject: [15424] Re: Why don\'t they...
Message-ID: <35B14456.75E7@arrl.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sending slower doesn't always improve copy at the other end. This is particularly true when there are lots of loud static or lightning crashes disrupting communications. I find it easier to copy CW under such circumstances at 25 wpm than at 5 wpm--I can write down complete characters and piece together the exchange at the higher speeds. At slow speeds I find it tough to piece together bits and pieces of characters; though when I was really into CW I could sort of reorganize poorly spaced CW into what the guy intended to send a bit better at slow speeds.

Conditions on 40 meter during the QRP TTF were an excellent example; signals were loud but chopped up by even louder static crashes from thunderstorms. I often encountered such conditions running 80 meter CW nets during the summer.--Zack W1VT

Date: Sat, 18 Jul 1998 21:59:17 -0400
From: "John J. McDonough" <jjmcd@tm.net>
To: <crucis@sky.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [15425] Re: QSL Cards
Message-ID: <199807190137.9451500@is1.tm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

> From: Mike - W0TMW <crucis@sky.net>; owner-qrp-1@Lehigh.EDU
>
> Yes, but what program do you use to create your QSL card?

A number of folks have asked me this privately, so I will answer here ... I use whatever graphics program or combination of programs works for how I

want my card to look. Sometimes, it takes quite a bit, because I'm sometimes inclined to overdo it perhaps.

For my current card, I created most of the graphics elements using PovRay, although the US map was grabbed from some clip art, modified using Improces, and used as a heightmap for PovRay. Generally, the graphics elements get worked over for one reason or another with PhotoStyler, Picture Publisher, or some similar program. For example, the ray tracing of the paddle and icom was too bright to be used as a background, so the contrast was reduced and the image lightened in Picture Publisher. (Even so, in the scan of the current card on QRZ the background is a little more brilliant than it is in the real card). In the case of the current card, some pieces were assembled with Altamira Composer. Finally, the whole card was assembled, the boxes and text added, in PageMaker. But as someone said, any graphics program can do it. It's a question of what you want and what tools you like to use.

I've received so many inquiries about my card I'm considering writing a program. After all, a lot about QSLs is pretty common, and a lot of the common stuff is kind of a pain to compose in, say, Windows Paintbrush. It will probably take me a while to get the time, but it should be a fun project. I would appreciate any suggestions folks could send me (off the list - let's not clutter it with stuff that isn't strictly QRP). Almost certainly I'll do the program in Windows (because that's what everyone has) and almost certainly it will either be freeware or copylefted.

72/73 de WB8RCR
didileydadidah

Date: Sat, 18 Jul 1998 21:31:30 -0500
From: k5zty@juno.com
To: qrp-l@Lehigh.EDU
Subject: [15426] Re: Bugs and the consequences
Message-ID: <19980718.215413.6918.0.k5zty@juno.com>

All of the bad code is not from bug ops.. People mess with the weighting on their electronic keyers and get them all screwed up too. Machine gun dits and long dahs, or set the character speed at 40 when they're sending at 20 wpm. All that makes for sloppy code that is hard to copy. There is a proper rhythm to code and messing with it in any way screws it up. Trying to set your keyer faster to make you sound like a fast-op when you're not makes you sound like a lid. A good way to check this is to

tape record yourself and listen to it a day or two later and see if you like the sound of it.

Bill, k5zty
Houston, TX
k5zty@juno.com

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 18 Jul 1998 21:43:46 -0400
From: "Steve & Anne Ray" <sbralr@worldnet.att.net>
To: "QRP Group" <qrp-1@Lehigh.EDU>
Subject: [15427] Norcal Paddle Finishing the Handles
Message-ID: <19980719014823.DPWE7061@pentium>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

I recently finished up my Norcal paddle kit and I am quite pleased the way it came out. The only thing I was not satisfied with was the edges of the plastic handles. I finished the handles per the directions of using wet 220 paper on the edges, this took off the saw marks, but did not make the edges crystal clear.

Since I was using Brasso to polish the brass pieces up, I tried some on the edges of the handle. It really made a difference. The Brasso made the edges crystal clear with only a little bit of rubbing. In addition there was a very slight scratch on the flat portion of one of the handles. Brasso took the scratch out also, making the sides of the plastic handles crystal clear.

72,

Steve Ray K4JPN ex K1VKW HW-101, HW-8,
SWL 30-40, Pixie II, NC 38S, OHR 100A 30 M and Heath Kit fan

Date: Sat, 18 Jul 1998 21:48:15 -0400

From: "Steve & Anne Ray" <sbralr@worldnet.att.net>
To: "QRP Group" <qrp-1@Lehigh.EDU>
Subject: [15428] Norcal Paddle, Finishing Plastic Handles
Message-ID: <19980719014833.DPYB7061@pentium>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

I recently finished up my Norcal paddle kit and I am quite pleased the way it came out. The only thing I was not satisfied with was the edges of the plastic handles. I finished the handles per the directions of using wet 220 paper on the edges, this took off the saw marks, but it did not make the edges crystal clear.

Since I was using Brasso to polish the brass pieces up, I tried some on the edges of the handle. It really made a difference. The Brasso made the edges crystal clear with only a little bit of rubbing. In addition there was a very slight scratch on the flat portion of one of the handles. Brasso took the scratch out also, making the sides of the plastic handles crystal clear. It is necessary to wash the Brasso off the plastic handles with soap and water once they are polished up.

72,

Steve Ray K4JPN ex K1VKW HW-101, HW-8,
SWL 30-40, Pixie II, NC 38S, OHR 100A 30 M and Heath Kit fan

Date: Sat, 18 Jul 1998 22:46:39 -0400
From: "John J. McDonough" <jjmcd@tm.net>
To: <ku7y@dri.edu>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [15429] Re: Bugs and ETC
Message-ID: <199807190202.9453800@is1.tm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

> From: Monte Stark <ku7y@dri.edu>; owner-qrp-1@Lehigh.EDU
>
> Far too many don't want to admit that being able to copy less
> than perfect CW is not only just another level in the code

> picture but also lets them miss out on many great QSOs.

I have a long way to go on learning to copy poor code, but this is an awfully good point. It seems to me that frequently the best chat is with some very rough code, and the machine-perfect code is always a '599 73 seeya' sort of QSO!

Had to go to VE3 land this weekend, so I threw the Icom in the buggy and had a couple nice Q's on the way. One even using the the funny little remote-control thingie that you talk to (I know, for shame, for shame!) Steve W0SZ in Iowa gave my 3 watts a 58! That ol' Hamstick sure does it's job. Didn't operate /M/VE3, tho. Didn't take the time to look up the rules around that ahead of time, and as it turned out, I spent most of my time across the border busy being lost (dummy here forgot to bring the map to where I was supposed to go).

72/73 de WB8RCR
didileydadidah

Date: Sat, 18 Jul 1998 22:56:55 -0400
From: "John J. McDonough" <jjmcd@tm.net>
To: <nhoop@centuryinter.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [15430] Re: QSL Printing
Message-ID: <199807190243.9458800@is1.tm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

> From: Nat H <nhoop@centuryinter.net>; owner-qrp-1@Lehigh.EDU
>
> Does anyone know the weight (or whatever) of card stock suitable for QSL
> cards? I want to order some but don't know what it's called.

Nat,

Anything from about 60 to 120# should work, but check your printer. A lot of them won't take actual card stock. Some specialty places make something around 30# that will work in almost any printer, but it's a little light for a QSL and expensive, too.

Also you need to watch out for the surface. Card stock intended for a typewriter or impact printer might not work too well in your laser or inkjet. If possible, test before you buy. Plain surface card stock isn't

too expensive, tho, unless you get fancy (maybe \$8-9/500 at your local OfficeMax or Staples). But the glossy stuff can get downright outrageous - sometimes as much as \$1 a sheet.

72/73 de WB8RCR
didileydadidah

Date: Sat, 18 Jul 1998 21:44:00 -0500 (CDT)
From: jdenison@morelr.com (JOEL DENISON)
To: qrp-1@Lehigh.EDU
Subject: [15431] cw Bug ya :-)
Message-ID: <199807190244.VAA22569@ns1.morelr.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

hig gang":

I kinda followed this bug thread on the list...
geeeeezzzzzz didn't know perfectionism was that much in blossom... :-)

The common thread, that I got, was that most everyone will stop and work a cw station they feel comfortable with... (that's based on signal strength and readeability) and the discussion seemed to explode around where the norm should be for that comfort level.

I guess cw is like antennas, it takes all kinds to fill the need... :-)

What does seem to ring true, to me, in all this, the more u play cw, the better u get at it, and the better u get at it, the more ability u seem to have copying "hard to copy" code.

The other thing that seemed to be consistant was, If u send bad code (for whatever reason) you are likely to get fewer replies than you would if your code was "within the norm".

I like bugs very much, hope to get me another one sometime down the road... I'll have to learn the "swing" of it again :-) and I'm sure old memories will come back...

And while I am using this bug, I would encourage the station on the other end to do as I would do, and pass me by, if my readeability or signal strength is not within their comfort zone... I'll make other friends... :-)

There is usually someone out there that will chat with u, if they can hear and understand u without breaking a sweat... and there are some martyrs too... I'm not a martyr... nor a perfectionist... and I like bugs... :-)

Now lettuce all go build sumtin we plug a "bug" into... :-)

God Bless
joel, wa5cvm, in maine, with the "big crawfish"

God Bless
Joel

WA5CVM
Joel Denison Gentle Lady (RC Sail Plane)(049 engine - start)
PO BOX 542 DIPOLE on 40mtr
Strong, Maine 04983 QRP ARCI 4066 NEW ENGLAND QRP 476 QRP-L 765
jdenison@morelr.com Use strong nets guys, the crawfish are big over here

Date: Sat, 18 Jul 1998 20:13:49 -0700 (PDT)
From: Paul Erickson <paule@sfu.ca>
To: qrp-l@Lehigh.EDU (qrp)
Subject: [15432] FS: Heath DX35
Message-ID: <199807190313.UAA03660@fraser.sfu.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

A friend has a DX35 he wants to get rid of. It has some mods,
but all the components seem to be intact. Open to offers.

cheers, Paul ve7cqq email: paule@sfu.ca

Date: Sat, 18 Jul 1998 23:57:36 EDT
From: MNHopkins@aol.com
To: QRP-L@Lehigh.EDU
Subject: [15433] Why don't they...Tell Zack to QRS
Message-ID: <29893fa9.35b16eb1@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Zack Lau tells us he can copy better in QRN at 25 wpm than at 5. Maybe so,
but when Ade Weiss was flirting with coherent cw, in which the RX is
synchronized to the TX and only on for the character, a side finding was that
optimum information transfer occurs at about 12 wpm.

My own experience, operating CW on 6M where it is not an artform, tends to confirm that view. I get thru best with the keyer set to 15 and spacing a little slower -- something of a lefthanded Farnsworth.

By the way, the 5 wpm convention came from an observed fact: when one knows all the characters, he can copy 5 wpm. The pilots had to learn Morse for beacons and my uncle, T.A. Wilbanks, the oldest living Silver Eagle from American Airlines, can still recognize most of the characters at age 90. He learned the code long enough ago to have been a pilot for FDR's wife.

73 de ab5L, michael in dallas, student of Tecraft and International (ICM) ham products and mementoes of Six Meters' Golden Age: 1957-58

Michael Hopkins

Box 226841

Dallas, TX 75222 MNHopkins@AOL.com

Date: Sun, 19 Jul 1998 00:31:38 -0400
From: Ken Newman <n2cq@citnet.com>
To: njqrp@njqrp.org
Cc: epaqrp-1@Lehigh.EDU, QRP-L@Lehigh.EDU
Subject: [15434] Re: N2CQ places in TAC 'test!
Message-ID: <1.5.4.16.19980719042937.3b7f3df8@mail.citnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:17 07/18/98 -0400, you wrote:

>Congrats are in order for Ken Newman N2CQ who placed first in the TACTical
>category and third overall in the recent QRP TACTical Contest sponsored by
>the PA QRP groups.

>

>Jake Carter NU4Y, another NJ-QRP'er, also made a good showing in all
>categories.

>

>Nice going guys!

>

>72,

>---George N2APB

>

Thanks for the report on the TACTical Contest, George. I'd like to thank the NJQRP Club for the nice donation to the Contest. I'll be looking

foreward to putting together the Rainbow Bridge/Tuner as soon as possible. I think it will need a proper case for the "First Annual Tactical Contest Winner". If EPAQRP/CPAQRP club comes up with a nice decal to go with it, I'll be proud to attach it to the RBT. :) Thanks from the CPA/EPA QRP Clubs for a fine contest. I plan to go "TACTical again in '99 in PA.

My '98 portable operation was at French Creek State Park, running an NW80/20 on 20m and an OHR 100A, both at 5 watts. The antenna was a St. Louis Loop for both bands, supported by a 20' pvc pipe at the feed point and two 9' PVC pipes at the other corners of the loop. Feed was 300 ohm twin lead and tuner.

Thanks also for the others who called for the '98 TAC.

72/73,
Ken Newman, N2CQ
Woodbury, NJ
N2CQ@Citnet.com

Date: Sun, 19 Jul 1998 00:50:20 EDT
From: KF4EIB@aol.com
To: qrp-1@Lehigh.EDU
Subject: [15435] Perfect Code ??? (long)
Message-ID: <cc096f96.35b17b0d@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Most Kind Group,

IMHO, (standing on soapbox) I myself have pondered this tale of perfect code. Being a new Tech +, I have struggled with the novice / tech + band in 40 meters.

To compound my problem, if you will, I have used only QRP rigs. I know, I know, I am going about this in a matter that is not for the faint of heart nor low watts. BUT,

having the same "disease" as that dude up north, I love the smell of solder melting around the leads of resistors, caps, PNP's, NPN's, etc. etc.....

By my MOST good fortune, I have had the extreme privilage of having not one, but TWO elmers. This men of Extra Class are true friends, not only have they guided me through the perils of kit building, given advice, spoken words of encouragement, they also gave cheers as I managed to FINALLY pass that 5 wpm test!!

Now, back to subject..... CODE.

I love that stuff !!! IMHO (see above), * us new guys* need all the help we

can get.

Sure 25 - 55 wpm sounds cool, but no, I can't copy it yet. I try to make contacts on my rig and I know some of you radio guys may even hear my mighty 5 watts. The only problem is..... ol' kf4eib 's code don't sound real good. With time I hope it will.

I have made a few QSO's, real proud of those too. Bless you guys that have taken the time to slow down and strain to work me. I don't care what instrument of CW music you play, be it a SK, Bug, Keyboard or what ever. Tune in and give us a thrill, make our day with a QSO that we can understand, not at 35 wpm please, help us with our code and one day you can say... " Good code.. I helped that guy with my QSO". It's bad enough that the Big Bad Broadcast Stations "eat us alive" on the area I play as a Tech+, please don't pass up a QSO just because my code doesn't "sound" as good as yours, give me time and practice, it will.... I promise on the contacts of my Bencher. Enough !!! Standing down from soapbox.

Thanks for your time and interest in my "speech".
Take care and will Listen for you on 40m....7.100 - 7.150.

73 my friends,

Gordon kf4eib

Date: Sun, 19 Jul 1998 00:05:50 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: cqclist@mtechnologies.com, qrp-1@Lehigh.EDU
Subject: [15436] CQC Picnic Pix
Message-ID: <199807190605.AAA10295@edison.chisp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

If all has gone according to plan, you should find pix from the CQC Picnic Meeting at <http://www.mtechnologies.com/cqc/gallery>. They are thumbnailed, but there are 48 thumbs on the page. Haven't had time for captions but hope to take care of that later.

I'll also post a report of some kind, with emphasis on the Run For the Trees and QLF events, which were a lot of fun.

Marshall Emm
N1FN/VK5FN
n1fn@MorseX.com
Morse Express
"Everything for the Morse Enthusiast"
<http://www.MorseX.com>
(303)752-3382

On Sat, 18 Jul 1998 MNHopkins@aol.com wrote:

> Zack Lau tells us he can copy better in QRN at 25 wpm than at 5. Maybe so,
> but when Ade Weiss was flirting with coherent cw, in which the RX is
> synchronized to the TX and only on for the character, a side finding was that
> optimum information transfer occurs at about 12 wpm.
I have to agree with Zack. Here in the lightning capitol of the world, I
can easily lose every letter in a word at slow speed when it's chopped up
by static. If the same word (name, QTH, etc.) is sent at 25 WPM or
better and sent twice, I can usually fill in any letter I missed the
first time around. A major source of irritation is when I ask for a
repeat and the station slows down to 5 WPM to send it. Usually miss it
then, too...

73,

Bob Patten, N4BP (0 0) Plantation, FL
o00o-()-o00

E-Mail: n4bp@bc.seflin.org
Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>
Brass Pounder BBS: (954) 472-7715

Date: Sun, 19 Jul 1998 07:47:28 -0400
From: Ken Newman <n2cq@citnet.com>
To: QRP-L@Lehigh.EDU
Subject: [15438] RE: TAC Contest Results
Message-ID: <1.5.4.16.19980719114526.3ae754bc@mail.citnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:17 07/18/98 -0400, you wrote:

>Congrats are in order for Ken Newman N2CQ who placed first in the TACTical
>category and third overall in the recent QRP TACTical Contest sponsored by
>the PA QRP groups.

>

>Jake Carter NU4Y, another NJ-QRP'er, also made a good showing in all
>categories.

>

>Nice going guys!

>

>72,

>--George N2APB

>

Thanks for the report on the TACTical Contest, George. I'd like to thank the NJQRP Club for the nice donation to the Contest. I'll be looking forward to putting together the Rainbow Bridge/Tuner as soon as possible. I think it will need a proper case for the "First Annual Tactical Contest Winner". If EPAQRP/CPAQRP club comes up with a nice decal to go with it, I'll be proud to attach it to the RBT. :) Thanks from the CPA/EPA QRP Clubs for a fine contest. I plan to go "TACTical again in '99 in PA.

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Thanks also for the others who called for the '98 TAC.

72/73,
Ken Newman, N2CQ
Woodbury, NJ
N2CQ@Citnet.com

Date: Sun, 19 Jul 1998 08:41:23 -0500
From: "Roy G. Jackson" <rjackson@iname.com>
To: qrp-1@Lehigh.EDU
Subject: [15439] Re: cw Bug ya :-)
Message-ID: <199807190841230630.002DE1B0@mail.iname.com>

Good morning all. I rarely submit to this list, but I just couldn't sit on this one any longer. I'm sorry to add to the noise. I have seen many suggest that they do not reply to someone who is sending less-than-perfect code. This reminds me of a QSO I had many years ago. I don't remember the call of the other party, or who called who. The important thing is that we were having a QSO. The person on the other end would be sending just fine, then a string of code that certainly wasn't identifiable to me would come out, then he would go back to 'normal' sending. I stuck with the QSO, not because I am such a great guy, or because I am a martyr, but because I felt that we should finish what we had started. As this QSO progressed (and I guess this gentleman started feeling more comfortable) he apologized for his poor sending. He said he was suffering from Parkinson's, which had affected his right arm. He had tried re-learning to send left-handed, and, not being able to do that, was off the air for a while. He had just built up his courage enough to get back on. We had a very enjoyable conversation. I hate to think that I might have passed up this opportunity to help someone participate in an activity that they obviously enjoy, just because I didn't like the way that he was sending CW. If Amateur Radio has progressed to that point of perfection, then maybe all the other services that are trying to acquire our frequencies are correct, and the service has outlived it's usefulness.

Now I'll crawl back in my hole. I have very thick skin, so flame away if you must, but do it off the list please.

73, Roy N9RG

Roy G. Jackson	Michigan City, Indiana
rjackson@iname.com	{Home e-mail address}
hcd46@sys1.bsco.com	{Work e-mail address}

Date: Sun, 19 Jul 1998 21:56:05 -0400
From: cy r currier <crc3@telplus.net>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>, "'zlau@arrl.org'"
<zlau@arrl.org>
Subject: [15440] RE: Why don't they...
Message-ID: <01BDB360.4FFDB020@bgr119.lobster.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

hi to all

i'm no speed demon and may never be. i am faster than some and probably =
slower than most on this board. i have never refused to answer a weak or =
sloppy code signal. i remember on one occasion the sender was paralyzed =
and using a puff and sip keyer as he could only move his head. another =
time i worked a 89 yr old man who thanked me profusely but said i was =
probably his last qso as he couldn't do 13 wpm. you could almost see the =
tears on the qsl.

i was out of it for a while, so my speed is not what it used to be. i'm =
back now

so hope to be improving. if u have a bad fist or weak signal feel free =
to call me.

my only ant is 40 meters at present. shack is the camper. last wk i =
worked the mid west from a hole surrounded by mountains. i spent more =
time slapping mosquitoes than copying. i don't know how he heard my 3 =
watts, but he did. i

probably sounded like a non - sender while swatting bugs in cootie =
hollow. in summation try to give the other guy a break. u may be making =
his day or creating a memory he may never forget. cy - k1tes=20

From: Zack Lau
Sent: Saturday, July 18, 1998 8:56 PM
To: Low Power Amateur Radio Discussion
Subject: Re: Why don\'t they...

Sending slower doesn't always improve copy at the other end. This
is particularly true when there are lots of loud static or lightning
crashes disrupting communications. I find it easier to copy CW
under such circumstances at 25 wpm than at 5 wpm--I can write
down complete characters and piece together the exchange at the
higher speeds. At slow speeds I find it tough to piece together
bits and pieces of characters; though when I was really into CW
I could sort of reorganize poorly spaced CW into what the guy=20
intended to send a bit better at slow speeds.=20

Conditions on 40 meter during the QRP TTF were an excellent example;
signals were loud but chopped up by even louder static crashes from
thunderstorms. I often encountered such conditions running 80 meter
CW nets during the summer.--Zack W1VT

Date: Sun, 19 Jul 1998 10:23:29 -0700
From: ka1iic <ka1iic@ime.net>
To: zlau@arrl.org
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [15441] Re: Know of any Linears for the Hw-8?
Message-ID: <35B22B91.30D@ime.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Good Morning Folks,

A good clean AM signal will take 10 KHz this allows for a passage of up to 5000 Hz in audio. If the rig has audio filters in place to limit the high end to say 3000 Hz the signal would be 6 KHz wide.

I have heard AM *high fidelity* signals up to 20 KHz wide but this is the extreme, passing a high end of 10 KHz.

And as I have said check the bandwidth of any of the higher speed digital modes and you will be quite surprized how wide they *really* are!

I truly hope I'm not adding to the confusion.

72 & 73
Vince
ka1iic
-.-.-

Date: Sun, 19 Jul 1998 06:09:55 -0600
From: w0yse@juno.com (Neil Klagge)
To: zlau@arrl.org
Cc: qrp-1@Lehigh.EDU
Subject: [15442] Re: bandwidth
Message-ID: <19980719.090411.11614.1.w0yse@juno.com>

I recall being taught by my elmer back in the 50's that the maximum bandwidth was 6 "kilocycles", equal to an A3 (AM) signal

---72/73's

Neil, w0yse since '54
now from Layton, Utah

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 19 Jul 1998 16:43:46 +0000
From: "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>, G.Heron@dialogic.com
Subject: [15443] Re: Giving QRP Talk
Message-ID: <E0yxvdL-0007Br-00@hen.scotland.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

In the past I have taken a tape recording of QRP QSOs I have had,
quite useful addition. Especially ant DX ones. Maybe you can use this
idea next time!

Best wishes

--73--

Frank G3YCC G QRP 042
email: g3ycc@g3ycc.prestel.co.uk
QRP web Site: <http://www.homeusers.prestel.co.uk/g3ycc/>
Packet: G3YCC@GB7HUL

Date: Sun, 19 Jul 1998 16:43:47 +0000
From: "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>, ab7ru@yahoo.com
Subject: [15444] Re: Antenna/wire advice for portable operation?
Message-ID: <E0yxvdb-0007Br-00@hen.scotland.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

> Date: Thu, 16 Jul 1998 10:32:29 -0700 (PDT)
> Reply-to: ab7ru@yahoo.com

> From: Mike Parkes <ab7ru@yahoo.com>
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Subject: Antenna/wire advice for portable operation?

> I am looking for any advice for antenna wire to use for remote qrp
> operation in the field...
> I seem to recall a thread here recently concerning a "teflon" coated
> antenna wire. Does anyone have any more info on this, or other wire
> suggestions?
>
> Many thanks...
> -Mike AB7RU
> (Just about done with my Sierra and can't wait to take it backpacking!)

in my opinion an end fed 33ft with an l match and one 17ft does very
well - as you can see at my web site. I used it from VK back to GM
(twice) on 40m CW (3W), can't do a lot better than that...! One
support needed only. For single band use a half wave (see web site)
easy to make and no radials needed.

Have fun

>
>
>
>
>
> ==
> Michael Parkes AB7RU
> 26725 E Moffat Rd
> Newman Lake, WA 99025
>
>
> -----
> DO YOU YAHOO!?
> Get your free @yahoo.com address at <http://mail.yahoo.com>
>
>
>
>
>
--73--

Frank G3YCC G QRP 042
email: g3ycc@g3ycc.prestel.co.uk
QRP web Site: <http://www.homeusers.prestel.co.uk/g3ycc/>
Packet: G3YCC@GB7HUL

Date: Sun, 19 Jul 1998 16:43:47 +0000
From: "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, hk4bmg@epm.net.co
Subject: [15445] Re: RV: Neophyte 40 M receiver
Message-ID: <E0yxvdq-0007Br-00@hen.scotland.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

It's on my web page!

--73--

Frank G3YCC G QRP 042
email: g3ycc@g3ycc.prestel.co.uk
QRP web Site: <http://www.homeusers.prestel.co.uk/g3ycc/>
Packet: G3YCC@GB7HUL

Date: Sun, 19 Jul 1998 16:43:46 +0000
From: "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>
To: qrp-1@Lehigh.EDU, gqrp-1@blacksheep.org
Subject: [15446] 18 Mhz great for QRP DX!
Message-ID: <E0yxve1-0007Br-00@hen.scotland.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

It would seem to me there is going to be a lot of great Dxing to be done on 18 as the sunspot activity increases. I did work W3KC in Md on my 2 watts to the Cobbweb and heard quite a few choice morsels in the last few days, KP2, JAs etc.

I had to smile when working W1DQ (Ct) today though, he was using 1kw into a 3 ele to my 5w on the same antenna as above. Interestingly though he was calling CQ on 14.006 and no replies and came straight back to me. He was not that strong (569) and I have often found that you can work stations when they are a bit weak. He may be beaming away from you etc, but it is always worth a quick call.

Cheers.

--73--

Frank G3YCC G QRP 042
email: g3ycc@g3ycc.prestel.co.uk
QRP web Site: <http://www.homeusers.prestel.co.uk/g3ycc/>
Packet: G3YCC@GB7HUL

Date: Sun, 19 Jul 1998 15:52:17 +0000
From: Walt Amos <waltk8cv@ameritech.net>

To: List qrp-l <qrp-l@Lehigh.EDU>
Subject: [15447] [Fwd: Why don't they...Tell Zack to QRS]
Message-ID: <35B20821.16124014@ameritech.net>
MIME-Version: 1.0
Content-Type: multipart/mixed; boundary="-----E07BF62390F9C63A8E4E5017"

This is a multi-part message in MIME format.
-----E07BF62390F9C63A8E4E5017
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Yo Fellow Readers.....

Perfect way to kill off CW! Everyone, including testers, must only
communicate at 5 WPM !!

Walt k8cv
-----E07BF62390F9C63A8E4E5017
Content-Type: message/rfc822
Content-Transfer-Encoding: 7bit
Content-Disposition: inline

Received: from fidoii.CC.lehigh.EDU ([128.180.1.4])
by mailhost.ind.ameritech.net (InterMail v03.02.02 118 115)
with ESMTP id <19980719084759.IPL7248@fidoii.CC.lehigh.EDU>;
Sun, 19 Jul 1998 03:47:59 -0500
Received: from Lehigh.EDU ([127.0.0.1]) by fidoii.cc.Lehigh.EDU with SMTP id
<13197-47858>; Sun, 19 Jul 1998 04:47:33 -0400
Received: from nss4.cc.Lehigh.EDU ([128.180.1.13]) by fidoii.cc.Lehigh.EDU with
ESMTP id <12541-63468>; Sun, 19 Jul 1998 04:47:11 -0400
Received: from bc.seflin.org (n4bp@bc.seflin.org [199.227.192.20])
by nss4.cc.Lehigh.EDU (8.8.8/8.8.5) with ESMTP id EAA19740
for <qrp-l@Lehigh.EDU>; Sun, 19 Jul 1998 04:47:06 -0400
Received: (from n4bp@localhost)
by bc.seflin.org (8.9.1/8.9.1) id EAA29405;
Sun, 19 Jul 1998 04:48:33 -0400 (EDT)
Message-Id: <Pine.3.89.9807190427.B28209-01000000@bc.seflin.org>
Date: Sun, 19 Jul 1998 04:48:33 -0400 (EDT)
Reply-To: n4bp@bc.seflin.org
Sender: owner-qrp-l@Lehigh.EDU
Precedence: bulk
From: Bob Patten <n4bp@bc.seflin.org>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: Re: Why don't they...Tell Zack to QRS
In-Reply-To: <29893fa9.35b16eb1@aol.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-To: MNHopkins@aol.com

X-Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
X-Listprocessor-Version: 8.1 beta -- ListProcessor(tm) by CREN

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73,

Bob Patten, N4BP (0 0) Plantation, FL

-----o00o-()-o00-----

E-Mail: n4bp@bc.seflin.org

Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>

Brass Pounder BBS: (954) 472-7715

-----E07BF62390F9C63A8E4E5017--

Date: Sun, 19 Jul 1998 08:50:51 -0700
From: Vic Rosenthal <rakefet@rakefet.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [15448] CW renaissance!
Message-ID: <35B215DB.47A26D18@rakefet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have to smile when I read all the comments about CW; good, bad, ugly, bugs, keyers, dits, etc. I remember hams complaining about lousy sending 40-odd years ago, and the OT's probably will attest that it has always been so. Just like farmers and the

weather.

Nothing makes me happier than to hear a new ham complaining about CW, because it means he is USING CW! Right on, guys (and gals)!

My recommendation to maximize CW enjoyment is just to make as many QSOs as you can.

Your copying and sending skills will improve.

It's clear to me that while there is unprecedented pressure to drop CW requirements, expand 'phone allocations, etc., and while CW is disappearing in the commercial/military world (bad idea), there is also a renaissance in interest in CW among hams.

This is important to me, because I personally love CW and want to continue with it for the rest of my life. The thing I like most about QRP is that it brings the real advantages of CW to the fore.

CW forever!

Vic, K2VCO

Date: Sat, 18 Jul 1998 22:57:00 -0700
From: Lisa Osier <osier@northnet.org>
To: qrp-l@Lehigh.EDU
Cc: osier@northnet.org
Subject: [15449] QSL PRINTING PROGRAMS
Message-ID: <35B18AAC.3B18@northnet.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Gang!!

I have a older 386 computer and run Windows 3.1 is ther any good qsl printing programs i could run???? i have a new HP 400L INKJET to do the printing. Help!!!!!!

73/72 es THANKS!!!!

GEORGE OSIER N2JNZ/QRP

Date: Sun, 19 Jul 1998 10:50:20 -0600 (MDT)
From: marion@montana.com
To: qrp-1@Lehigh.EDU
Subject: [15450] Glacier-Waterton hamfest
Message-ID: <199807191650.KAA22022@paw.montana.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Went to best hamfest I've ever been to yesterday, Glacier-Waterton hamfest at Glacier Park, MT. The Canadians really put out the hospitality. About 600 people who are all your best friend. Met up with a few qrp folks. Unfortunately, the qrp symposium was canceled. Lots of other good talks. A good time was had by all. 72 Roy AB7CE

Date: Sun, 19 Jul 1998 09:09:48 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: "George T. Baker" <w5yr@swbell.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [15451] Re: Simple BFO circuit
Message-ID: <Pine.SOL.3.96.980719090519.5863A-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 18 Jul 1998, George T. Baker wrote:

>
> Ab old trick we used to use with such radios was to merely set another
> radio near the desired receiver and tune it to the same band. By varying
> the tuning of the "other" radio you can inject a front-end oscillator
> signal that will beat with the desired signal. You may have to play
> around with positioning the two receivers to get the signal coupling
> adequate.
>

This is how I learned to copy CW.

I had a Firestone radio with shortwave bands. I listened to the CW without a BFO until W6KHK (sk) and W6DPL told me about that second radio trick.

I used my Sister's AC/DC radio/record (78 rpm) player to get the tone's.

Only drawback was that I had to keep a hand on each tuning knob because they drifted so badly! No free hand to copy so just did it in my head. Took about 2 weeks to get past the 5 wpm and get my novice license.

Gad, how easy learning was when we were in school! :-)

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Sun, 19 Jul 1998 12:35:44 -0400
From: haf47@JUNO.COM
To: qrp-l@Lehigh.EDU
Subject: [15452] Simple BFO Request
Message-ID: <19980719.123549.6766.0.haf47@juno.com>

This is in response to Keith, whose original post I have deleted by mistake. Keith queried the group with a request, "Is there a simple circuit I could use for a BFO?"

Remarkably, of the two responses he got that I read, neither could have been of much use to him.

One response was in essence , "Yes, there is such a thing as a simple BFO, build it yourself."

The other response I read gave the advice, "Make it adjustable (among other things)."

I have the impression that Keith is a beginner in his radio adventures. I took his request as such, anyway.

I know I wouldn't be anything other than confused by such replies, well meaning that they may be.

So Keith, if you're out there, try one of the little T-Kits offered by Ten-Tec. Is is called the "Universal BFO for Shortwave Receivers", and is

their model1050, and sells for \$9.00 plus shipping. It has a spiffy little instruction booklet, tells you how a BFO works, and comes with all parts needed. It can easily be put into most radios, but requires a radio with a 455kHz IF frequency, which shouldn't pose a problem. It's adjustable, too.

If you want to roll your own please let me know and I will try to find a known working circuit for you. I have it tucked away and looked for it but haven't found it yet. It's pretty simple. It uses a miniature 455 kHz IF transformer, a couple of capacitors and resistors, and one cheapo transistor.

If your project is a one time deal, I suggest going with the T-Kit to save time and frustration. I've used one and it works.

73, Howie

WA2AFD
haf47@juno.com

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 19 Jul 1998 12:45:16 -0400 (EDT)
From: Bob Patten <n4bp@bc.seflin.org>
To: QRP-L Reflector <qrp-l@Lehigh.EDU>
Cc: Florida Contest Group <fcg@qth.net>, Florida Contest Club -- AE4R0
<ae4ro@gate.net>, AE4SW <dxe@usa.net>, K2ACW <k2acw@juno.com>,
K4FCC <dmcduff@gate.net>, K4LM <k4lm@worldnet.att.net>, K4LQ
<fperkins@ct.net>, K4MF <garymf@aol.com>, K4PG <p014455b@pb.seflin.org>,
Subject: [15453] Field Day Pix
Message-ID: <Pine.3.89.9807191245.A12893-01000000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I've added ten pictures from the "Guano Reef Bashful Perverts" Field Day operation to my web site. If interested, the URL is in the sig line below.

73,

Bob Patten, N4BP (0 0) Plantation, FL

o00o - () - o00

E-Mail: n4bp@bc.seflin.org
Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>
Brass Pounder BBS: (954) 472-7715

Date: Sun, 19 Jul 1998 12:49:10 -0500
From: Mark Gilger <mgilger@concentric.net>
To: qrp-1@Lehigh.EDU
Subject: [15454] CUSHCRAFT R7000 PROBLEMS
Message-ID: <3.0.3.32.19980719124910.006ebb7c@pop3.concentric.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I thought some of you might be interested in a problem I've been having with my R7000. Cushcraft was good about replacing the coil last year when I experienced problem aprox. 8 months after buying it. Not sure if they will help me out this time or not.

The following was my most recent e-mail to them

I've once again experienced problems with my R7000 CT1 coil.

Last September Cushcraft sent me a replacement CT1 to fix a problem I was having. It in fact did fix things up until just now. The same problem came back, High SWR on all bands above 10 meters. Ten was ok. I could shake the antenna and the SWR would jump all over the place, so I knew I had a loose connection.

First; I removed the matching network and cleaned it up. It had a few bugs that took up residence inside. Reinstalled and the problem was still there. I then removed it from the support mast and put a DVM across each loading coil and found that CT1 was intermittent when I shook it. Turned out to be a loose screw on the lower side that hooks to the loading coil wire that comes out from within. I tried to tighten it, but it was stripped. I put a new screw, slightly bigger, in and everything is now ok. I also RTV'd that connection on all three coils.

Question: Is this going to be a yearly thing where I experience problems? The antenna is not even two years old and CT1 has had problems it seems every 8 months or so. My R7 was up in the air for 3-4 years and I never had to take it down for any maintenance at all. The reliability factor was what prompted me to stick with Cushcraft and upgrade to the R7000 in the first place.

Have there been any improvements in the R7000 to increase it's reliability

that I should pursue?

Regards,
Mark - WB0IQK

Date: Sun, 19 Jul 1998 13:06:28 -5
From: "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
To: qrp-l@Lehigh.EDU
Subject: [15455] Spectrum Analyzer Kit info from Kanga US
Message-ID: <199807191704.NAA22656@sparticus.bright.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Thanks to all that have responded to my brief post about a kit for the Spectrum Analyzer that is in QST - I will have more info available after I get back on the 27th.

The response has been outstanding!
73 - Bill - N8ET
Kanga US
kanga@mail.bright.net
<http://www.bright.net/~kanga/>
419-423-4604

Date: Sun, 19 Jul 1998 13:10:03 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@Lehigh.EDU
Subject: [15456] CW SPEED (sorry)
Message-ID: <878f49e2.35b2286c@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Folks

I note with great interest that my original comment was that folks seem to have this urge with cw to send at blazing speed but it is not generally common in the SSB mode. Within a few hours the thread degenerated to problems with sending slower than 5 WPM or *if you can't run with the big dogs, then stay on the porch*.

Just as an *observation* but with such strong feelings in the cw family it may not be long that there will be few newcomers to take the place of the old pros.

I appologize for the discention it may have caused...that is something we just don't need and was not intended. I will be a bit more carefull of the topics I comment on in the future.

Y'all have a super day..dit dah...Alan KB7MBI

Date: Sun, 19 Jul 1998 12:06:08 -0500
From: Michael Melland <badger@vbe.com>
To: qrp-1@Lehigh.EDU
Subject: [15457] HW-9 coils needed
Message-ID: <35B22780.21F9@vbe.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello, I subscribed to the list about 30 min. ago and already need help <grin>. I'm repairing a Heathkit HW-9 that I purchased a while back. I need to replace two of the variable can coils on the T/R board (Heath part 40-2072, .9 microhenry coil). The coils apparently were damaged by an "adjustment" a prior owner attempted <grin>.... without removing the band switch shaft.... already found and replaced one of the 15 meter cans for same reason. I have the components to try winding my own but thought I'd try here first..... any "parts" HW-9's out there for a source of these coils ?

Tnx es 73 de

--

Michael Melland, KB9QHU
Winneconne, Wisconsin, USA
FISTS #4387, 10-10 #69281
CW, SSB, and Electronics
List Administrator: grundig@qth.net

Date: Sun, 19 Jul 1998 13:20:20 -0700
From: ka1iic <ka1iic@ime.net>
To: w0yse@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [15458] Re: bandwidth

Message-ID: <35B25504.C2B@ime.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Quite right Neil,

But there is no clear definition of bandwidth in the rules and regulations this is where *common sense* comes into play.

As your Elmer said 6 KHz, and 3000 Hz would be the highest frequency passed by the modulator.

I have in the past few years seen AM signals as wide as *20* KHz! ie K1MAN's bulletin outlet on 3.89 MHz. This is his 'High Fidelity' station.

Such is life...

72 & 73
Vince
kaliic
-.-.-

Date: Sun, 19 Jul 1998 12:00:13 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-l@Lehigh.EDU, cqclist@mtechnologies.com
Subject: [15459] CQC Picnic Meeting
Message-ID: <199807191800.MAA22539@edison.chisp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Some 35 people including extended family members braved the 100 degree heat to come to the CQC Picnic at Daniel's Park. I hope they all had a good time (I know I did).

Highlights of the day were the two "real radio" events, the Run For the Trees, and the QLF left-footed sending contest.

The QLF test was really interesting to me personally because I had heard about them all my life but never seen one. Contestants were given a script to send, thirty seconds to send it, and graded on accuracy (50 points), speed (25 points) and presentation (25 points). The sending text

was CW IS THE ONLY LEGAL MUSIC ON THE BANDS. The key was lent to us by the Denver Radio Club (thanks, guys), with el cheapo CPO added by yours truly late Friday night) and takes about a 30 pound pressure or impact to trigger. All of the performances were highly entertaining, and there were a couple of ops who were said to do better QLF than they do on the air [g].

The Run For the Trees was a somewhat novel event, at least to the extent that none of us have heard of it being done before. The idea was for the competitors to take off from a common starting point with whatever they could carry in the way of a radio station, run, walk, waddle or whatever to some attractive spot, set up the station, and achieve the first HF QSO with a station outside Colorado. I assigned a judge to each station to report back when each station first transmitted, and when the first QSO was made. In view of the heat, I had decided we should limit the attempt to thirty minutes total, and if no QSO was logged then the winner would be the station who got on air first.

We had four competitors (W0HEP, K0FEI, AB0CD, and W0AH), and it was immediately apparent that they were taking this very seriously. Looked to me as if they had all done some fairly serious "scouting" beforehand and knew exactly where they were going. The park is something of a plateau, and all four ran straight to spots just off the edge, being the closest "trees" they could attach antennas to. Well, not quite straight-- Dough W0AH dropped his gear about three quarters of the distance to his site and had to pick it all up before continuing.

First on air was Rich, W0HEP with an elapsed time of 1:58. Last on the air was Dough W0AH at elapsed time of 9:55. But Doug scored the first QSO, a station in WI, at 16:20 elapsed-- 1W, SSB, from an old Atlas Rx/Tx-110, and a dipole at 8 feet agl average. He also logged the second QSO, CW, to CA. No other QSO's were logged in the 30 minutes.

All four stations said it was good fun, but there was also a universal opinion that next time should be in spring or fall [g].

Other events, in which non hams were participants, included a 2m shotput. We used a 2M HT made out of a piece of 2x4. I broke the antenna off it while demonstrating the difference between "put-ing" and throwing, but it still work. We rejected Rich W0HEP's suggestion that any no-code Tech's should use their own HT's.

And the water balloon toss was fun too, expecially when Secretary Jan's N0QT balloon developed a pressure leak.

Un-edited pix on the web at <http://www.mtechnologies.com/cqc/gallery>

And hopefully the picnic put everyone in the right frame of mind for this

afternoon's Great Colorado Gold Rush Sprint, q.v.

73

Marshall Emm

N1FN/VK5FN

n1fn@MorseX.com

Morse Express

"Everything for the Morse Enthusiast"

<http://www.MorseX.com>

(303)752-3382

--

Date: Sun, 19 Jul 1998 13:57:27 -0400

From: Ed Tanton <n4xy@att.net>

To: rjackson@iname.com

Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, cw@qth.net

Subject: [15460] Re: cw Bug ya :-)

Message-ID: <3.0.5.32.19980719135727.00c3fc00@postoffice.worldnet.att.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

///snip

>call of the other party, or who called who. The important thing is that we
>were having a QSO.

///snip

> If Amateur Radio has

>progressed to that point of perfection, then maybe all the other services

>that are trying to acquire our frequencies are correct, and the service has

>outlived it's usefulness.

///snip

Can I hear an "AMEN"?!!! AMEN!!! Well said Roy! And while I'm using
religious rhetoric: let's also remember the statement about "Let he who is
guiltless among us cast the first stone." Hopefully generic enough to not
offend, and very much applicable to any of us.

I've had QSOs that practically drove me up the wall with strings of 12 or
so dits for EVERY mistake-which was every other word... but how is he going

While the longtime infamous CQ-phrase of a certain late-I believe-OT ("No kids, no lids, no space kadettes!") is somewhat humorous at first; upon reflection it is both narrow minded and somewhat mean spirited. How are the "lids" going to get better, if not through example? And I'll work all the kids and astronauts who call me! (Yes I know: he didn't HAVE astronauts then-but I couldn't resist.)

•

Ed Tanton N4XY EMAIL: n4xy@att.net
189 Pioneer Trail
Marietta, GA 30068-3466 TEL: (770)579-3933 V/MBX/FAX

"Think you can, think you can't: either way you're right!" Henry Ford

Date: Sun, 19 Jul 1998 12:03:37 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-l@Lehigh.EDU, cqclist@mtechnologies.com
Subject: [15461] Last Minute Reminder, GCGR
Message-ID: <199807191803.MAA22651@edison.chisp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7BIT

Last minute reminder, folks-- two hours to the start of the Great Colorado Gold Rush. Won't rehash the rules, but in summary it's 20M CW only, 200-2200Z. The exchange is RST, SPC, Class, and CQC member number or power out. Class is W for wire, V for vertical, B for beam, and P for portable (any antenna type). Work any station up to THREE TIMES as long as 30 minutes have elapsed between contacts with the same station.

See you there!

73

Marshall Emm

N1FN/VK5FN

n1fn@MorseX.com

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(303)752-3382

--

Date: Sun, 19 Jul 1998 14:21:50 -0500
From: jeffrey davis <jeff@jehosophat.com>
To: QRP-L List <qrp-l@Lehigh.EDU>
Subject: [15462] QRP Ops
Message-ID: <19980719142150.A2998@jehosophat.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hello,

I recently joined this list and have found it most helpful. I have been licensed since the mid 70's when as a high school student I was bitten by the ham radio bug. Over the years I have enjoyed many aspects of the hobby, DXing, satellite communications, digital operations, etc.

Over the last few years, however, the hobby has been less interesting to me than it once was. I was considering selling all my gear and moving on when I recently read a few articles about QRP operation. That led me to a fairly exhaustive search of QRP related sites on the Web. It was a surprise to me to see so many sites and so many hams enjoying the art of low power operation.

I'm no stranger to QRP ... the 2nd rig I owned was a HW-7 that I built on my

parents kitchen table with Mom complaining about me using all her muffin pans for parts storage! My purchase of the HW-7 had more to do with dollars than with low power operation but I was always amazed at how well that little peanut whistle performed.

One thing that has really been evident in all these QRP Web sites is the *fun* that everyone seems to be having! It seems to me that there is a real renaissance in CW operation, homebrewing and kit building among a large contingent of hams today.

In short, I want in on the fun too! Which brings me to the real reason for this posting ... I'd like to purchase a CW transceiver kit, preferably something with all-band capability or at least multiple bands ... and I really would like to have a built-in keyer and frequency readout. In my few days of Web searching it looks like the "Sierra" would fill the bill for me. I'd love to hear from you if you have other suggestions. If you think it best feel free to email me directly as I'm sure this has been covered many times on this list.

Vy 73 de n9avg.

--

jeffrey davis
jeff@jehosophat.com

Date: Sun, 19 Jul 1998 11:48:49 -0800
From: "Jim Larsen (AL7FS)" <larsennnc@alaska.net>
To: qrp-l@Lehigh.EDU
Subject: [15463] Colo. Gold Rush here I come.
Message-ID: <35B24DA0.AD0DF6A@alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Love two hour sprints. See you all there.

73, Jim, AL7FS

Date: Sun, 19 Jul 1998 13:22:24 -0700
From: dave_epps@juno.com
To: qrp-l@Lehigh.EDU
Subject: [15464] Pad Cutter

Message-ID: <19980719.134822.9526.0.dave_epps@juno.com>

Tks to all for the info. I got the catalog yesterday.
dave ab5pc fresno, ca.

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 19 Jul 1998 17:08:50 -0400
From: "Harry T. Hurst" <hhurst@delaware.infi.net>
To: <qrp-1@Lehigh.EDU>
Subject: [15465] Re: CW renaissance!
Message-ID: <199807192056.QAA21267@fh101.infi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

yeah, the cw ops on the bands sound like a bunch of amateurs!

> From: Vic Rosenthal <rakefet@rakefet.com>
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Subject: CW renaissance!
> Date: Sunday, July 19, 1998 11:50 AM
>
> I have to smile when I read all the comments about CW; good, bad, ugly,
> bugs, keyers,
> dits, etc. I remember hams complaining about lousy sending 40-odd years
> ago, and the
> OT's probably will attest that it has always been so. Just like farmers
> and the
> weather.
>
> Nothing makes me happier than to hear a new ham complaining about CW,
> because it
> means he is USING CW! Right on, guys (and gals)!
>
> My recommendation to maximize CW enjoyment is just to make as many QSOs
> as you can.
> Your copying and sending skills will improve.
>
> It's clear to me that while there is unprecedented pressure to drop CW
> requirements,

> expand 'phone allocations, etc., and while CW is disappearing in the
> commercial/military world (bad idea), there is also a renaissance in
interest in CW
> among hams.
>
> This is important to me, because I personally love CW and want to
continue with it
> for the rest of my life. The thing I like most about QRP is that it
brings the real
> advantages of CW to the fore.
>
> CW forever!
>
> Vic, K2VC0

Date: Sun, 19 Jul 1998 17:27:04 EDT
From: Ab7wy@aol.com
To: qrp-l@Lehigh.EDU
Subject: [15466] Re: cw Bug ya :-)
Message-ID: <171ded9d.35b264a9@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

right on roy!! you never know who your going to run into on the air, good
code sending is much easier to copy, but even bad code is still a qso that may
have an interesting story behind it. and besides, its only a small fraction
of your life spent in this exchange so make do with the bad sending and make a
new friend.

forgive me for flogging this thing to death but ive seen a lot of valid
points made....i just wanted to jump in. 73 Adam AB7WY

p.s. ill give this subject a rest now :-)

Date: Sun, 19 Jul 1998 17:33:31 EDT
From: MNHopkins@aol.com
To: k6qq@hdo.net
Cc: QRP-L@Lehigh.EDU
Subject: [15467] note, plea to "Stonewall" John, K6GG
Message-ID: <5c36c858.35b2662c@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7bit

John,

An excellent e-mail you sent me on CCW in response to the "Tell Zack Lau to QRS" posting, but, like most of the good stuff, you did not post it generally. It happens all the time and it is why QRP-L is known for childish prattle -- that is all anyone sees. The information exchange is going on offline while we wade thru stacks of "The XYZ has been sold." Perhaps this is because of the Chinese axiom, "those who know do not speak, those who speak do not know." That may be true, but I wish you would raise above principle and let everyone see the stuff about coherent cw.

72,3 de ab5L who finds QRP-L a font of white noise barely justifying his daily effort to clear away the snow.

Date: Sun, 19 Jul 1998 04:42:26 -0700
From: Lisa Osier <osier@northnet.org>
To: qrp-l@Lehigh.EDU
Cc: osier@northnet.org
Subject: [15468] help with qsl print programs
Message-ID: <35B1DBA2.454D@northnet.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Gang!!!

Many thanks for the responses so far!!!!
Ill give the Paintbrush a try and possibly try to
find the Corel program , once agn mni tnx all!!!!

73/72 es TNX
GEORGE N2JNZ/QRP

Date: Sun, 19 Jul 1998 17:56:36 -0400
From: Bob Edwards <w4ed@flash.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Cc: "Reed Krenn, WW3A" <krennr@mindspring.com>, "Alfred Westbrook, KT4VP" <KT4VP@radia1.com>
Subject: [15469] Field Day Pix
Message-ID: <35B26B94.434978CB@flash.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Here are a few FD pix from radio club W4LMA.

CW-HF ops ran QRP, SSB-HF ops ran ~ 100 watts.

http://ns1.qsl.net/w4lma/fd_98.htm

(images are slow loading)

--

Bob 72/73

<http://www.qsl.net/w4ed>

W4ED nr Atlanta @EM73wt

...."QRP", more from less....

```
      /|
     / | \
    /  |  \
   /_ | _\
  [ \-===== /
```

Date: Sun, 19 Jul 1998 14:15:02 -0800
From: "Jim Larsen (AL7FS)" <larsennc@alaska.net>
To: qrp-1@Lehigh.EDU
Subject: [15470] Colorado Gold Rush de AL7FS
Message-ID: <35B26FE6.CCEE1E2A@alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Greetings from Alaska,

As usual, the propagation was a challenge. I had to be there for the bursts into a given area. The signals would come up and be there for a minute or two and then go away again.

Many thanks to:

k7szl 3 Qs

ac6uv

ab7tk 3 Qs

ab0cd 2 Qs

wb7qqm QR0

w7cd

ve7peb

kg8yt

w6hpk QR0

k0frp
ab5ua
n1fn

wa, ca, id, co, bc, mi, ok = good enough for me.

I was able to get the needed info out of the QRO stations so they are in the log.

Again....Fun. Two hour sprints are convenient. I like the 20 meter only rule and the rule that let us work each other up to three times. I didn't feel so left out by knowing you were all down on 40 meters making 300 QS0s. :-)

'Til the next Sprint....

73, Jim, AL7FS
Anchorage, Alaska

Date: Sun, 19 Jul 1998 18:19:38 EDT
From: N9DD@aol.com
To: QRP-L@Lehigh.EDU
Subject: [15471] C0 Gold Rush oops
Message-ID: <34adba25.35b270fc@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Hi Gang

I tuned across 14.060 this afternoon and discovered the CQC Gold Rush under way.

Not having memorized the rules, I had to ask N4BP, my first QS0, for the exchange.

He said antenna and power, so I sent Loop and 3W. Good enough I guess.

I ran up to the computer to read the rules and saw that I could send my CQC number, and should be sending a W for my wire loop antenna, so I started doing that.

About 2200, I decided to call CQ and got several replies. Then, nothing. Hmmm.... I said to myself. "When does this contest end?" I ran back to discover that I had started calling CQ after the contest ended. My apologies to N4S0 and K4NK. Although I enjoyed our short contest-style QS0s, they won't

count for points.

Next time I promise to be better prepared :-) It was fun while it lasted, anyway. Thanks to the CO QRP Club for the fun contest.

73,

Tom N9DD
South Bend, IN

<http://members.aol.com/n9dd> (INQRP pictures, Dayton 98 Pictures, SWBC QSLs and more)

Date: Sun, 19 Jul 1998 18:51:37
From: "Gary M. - W2UX" <mail4gary@worldnet.att.net>
To: qrp-l@Lehigh.EDU
Subject: [15472] [Fwd: Heath HW-9]
Message-ID: <3.0.3.16.19980719185137.275f628c@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Thought someone might be interested in this.....good luck.

=====
72/73 de W2UX
Gary McCaughey
Lexington, SC
CW is the REAL THING!
Use it....or lose it.
QRP-ARCI QRP-L CQC
=====

End of QRP-L Digest 1157

